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(54) PRODUCTION OF NORBORNENE POLYMER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a process for producing a norbornene addition polymer by using a new polymerization catalyst which serves to polymerize a norbornene monomer at high activity.

SOLUTION: A norbornene monomer is polymerized by using a catalyst comprising a mixture of (A) a compound of a transition metal selected from the group consisting of group 8, group 9 and group 10 metals, (B) a compound containing a halogen atom and an element selected from the group consisting of B, Al, Ti, Zn, Ge, Sn and Sb, and (C) water or an acid the proportions of component A to component B to component C satisfying the relation of the formula: $a/4 \leq c \leq 4b$ (wherein a, b and c respectively stand for the numbers of mol of component A, component B and component C).

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